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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/879,168	06/13/2001	Pere Obrador	10006278-1	3661	
7	7590 05/23/2003				
HEWLETT-PACKARD COMPANY Intellectual Property Administration P.O. Box 272400 Fort Collins, CO 80527-2400			EXAMINER		
			LEE, Y YOUNG		
Fort Collins, C	O 80527-2400		ART UNIT	PAPER NUMBER	
			2613		
			DATE MAILED: 05/23/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No. 09/879,168	Applicant(s)	ent(s) Pere Obrador		
		Examiner Y. Lee		Art Unit 2613		
	The MAILING DATE of this communication app	ears on the cover sheet v	vith the corres	pondence add	ress	
	or Reply					
	ORTENED STATUTORY PERIOD FOR REPLY IS	SET TO EXPIRE3	MONTH	I(S) FROM		
- Extens mailing - If the p - If NO p - Feilure - Any re	AALING DATE OF THIS COMMUNICATION, ions of time may be wellable under the provisions of 37 CFR 1.38 date of this communication. date of this communication is expected to the properties of t	within the stetutory minimum of thin epply end will expire SIX (6) MON ceuse the epplication to become AB	ty (30) days will b THS from the meili ANDONED (35 U.:	e considered timely. ng dete of this comm S.C. § 133).		
Status						
1) 💢	Responsive to communication(s) filed on May	16, 2003				
2a) 🛛	This action is FINAL . 2b) ☐ Th	is action is non-final.				
-0,94						
3) 🗆	Since this application is in condition for allower closed in accordance with the practice under a				he merits is	
3)					he merits is	
3)□ Disposi	closed in accordance with the practice under	Ex parte Quayle, 1935 C	C.D. 11; 453	O.G. 213.		
3) □ Disposi 4) 🔯	closed in accordance with the practice under a tion of Claims	Ex parte Quayle, 1935 C	C.D. 11; 453	O.G. 213.	ne application.	
3) □ Disposi 4) 🔀	closed in accordance with the practice under a tion of Claims Claim(s) 1-20	Ex parte Quayle, 1935 (is/ar	O.G. 213.	ne application. from consideration.	
3) □ Disposi 4) □ 5) □	closed in accordance with the practice under a tion of Claims Claim(s) <u>1-20</u> (a) Of the above, claim(s)	Ex parte Quayle, 1935 (C.D. 11; 453 is/ar	O.G. 213. e pending in the withdrawn is/are allowed	ne application. from consideration. d.	
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3) □ Disposi 4) □ 5) □ 6) □ 7) □ 8) □ Applice 9) □	closed in accordance with the practice under attion of Claims Claim(s) 1-20 Ala) Of the above, claim(s) Claim(s) 1-20 Claim(s) 1-20 Claim(s) Claim(s) Claim S The specification is objected to by the Examin	ex parte Quayle, 1935 C	is/ard	O.G. 213. e pending in the withdrawn is/are allowed is/are rejected is/are objected on and/or election and/or election by the E	ne application. from consideration. d. d. ed to. lection requirement.	
3) □ Disposi 4) □ 5) □ 6) □ 7) □ 8) □ Applice 9) □ 10) □	closed in accordance with the practice under attion of Claims Claim(s) 1-20 Ala) Of the above, claim(s) Claim(s) 1-20 Claim(s) 1-20 Claim(s) 1-20 Claim(s) 1-20 Claims The specification is objected to by the Examir The drawing(s) filed on	ex parte Quayle, 1935 C are sub are sub are sub are al □ accepted or the drawing(s) be held in is: al □	is/ari	O.G. 213. e pending in the withdrawn is/are allowed is/are rejected is/are objected too by the Education and/or election and/	ne application. from consideration. d. d. ed to. lection requirement. examiner. 5(a).	

a) ☐ All b) ☐ Some* c) ☐ None of:

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).

*See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received.

1. Certified copies of the priority documents have been received.

13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)

1) Notice of References Cited (PTO-892)	. 4) [Interview Summery (PTO-413) Peper No(s).
2) Notice of Dreftsperson's Patent Drewing Review (PTO-948)	5) [Notice of Informel Patent Application (PTO-152)

6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Talluri et al (6,026,183) for the same reasons as set forth in Section 8 of the last office action, paper number 4, dated 2/11/03.

Talluri et al, in Figures 3, 5, 10, and 11, discloses a content-based video compression that is the same apparatus and method for applying multi-resolution boundary encoding to region based still image and video encoding as specified in claims 1-20 of the present invention, comprising dividing an original image into a plurality of regions, wherein a plurality of boundaries associated with the plurality of the regions is detected (Fig. 5); encoding each of the plurality of the boundaries by two periodic wavelet series (e.g. H and L) such that each encoded boundary contains a plurality of coefficients (col. 11, lines 1-3), where the coefficients correspond to a plurality of boundary resolutions (e.g. HH1 and HH2 in Fig. 11); decomposing each of the plurality of the regions in the original image into four subbands (e.g. LL, LH, HL, and

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HH) each having a first boundary resolution using low/high pass horizontal and low/high pass vertical frequency filters (col. 11, lines 1-34); successively decomposing each of the plurality of the regions in a subband into one or more subbands (i.e. LL2, LH2, HL2, and HH2), each having a second boundary resolution, wherein the second boundary resolution is lower than the first boundary resolution (Fig. 11); transmitting boundary and image information (Fig. 1, Transmission Channel) having a selected resolution (e.g. HH2); successively transmitting boundary and image information having higher resolution (e.g. HH1) than the selected resolution HH2; reconstructing image information at a selected resolution HH2 in a receiver (Decoder) by combining the image information in one or more subbands having a lower resolution (e.g. HH3) than the selected resolution (e.g. HH1) than the resolution HH2 in the receiver by combining the image information in one or more subbands having a lower resolution (i.e. HH2 and HH3) than the yet higher resolution HH1, until the original image is reconstructed (Fig. 15b).

Response to Arguments

 Applicant's arguments filed 5/16/03 have been fully considered but they are not persuasive.

Applicant asserts on pages 6 and 7 of the Remarks that the various decomposed subbands of Talluri et al contain the same resolution information. However, Figures 10c and 11 of Talluri et al illustrate that the various successive decomposed image regions into subbands have different

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boundary resolutions (e.g. HH1-HH3), wherein the second boundary resolution HH2 is lower than the first boundary resolution HH1 as recited in applicant's claims 1-20.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any response to this final action should be mailed to:

Box AF

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314, (for formal communications; please mark "EXPEDITED

PROCEDURE")

(for informal or draft communications, please label

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"PROPOSED" or "DRAFT")

Or:

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Y. Lee whose telephone number is (703) 308-7584.

> Y. LEE PRIMARY EXAMINES

Y. Lee/yl May 21, 2003